

SUBJECT NAME – CONSTRUCTION TECHNOLOGY I

SUBJECT CODE – 3316203

FOCUS:

Understanding of basic building materials, basic building components in construction, building systems and related construction technology. Introduction to the basic building materials, their manufacturing process and properties.

CONTENTS:

- **CONSTRUCTION**
 - Introduction to the various components of building like floors, roofs, openings, staircase etc. Preparing a wall section to understand these components.
 - Study of all the types of masonry in Brick and Stone construction
 - Detail Study of brick masonry.
 - Understanding the concept of load bearing & framed structures & composite structures
 - Study of building components such as foundations, walls, floors, openings etc .in Load bearing & framed structures.
 - Introduction of basic foundations strip, pad etc

- **MATERIALS**
 - Study of basic materials of construction such as sand cement lime aggregates; brick, stone their structural & physical behavior with respect to its properties & application in building.
 - Study through practical site visits, presentations, case studies & workshop based on the application of theory to construction field.

SUGGESTED BOOKS

- Engineering Materials , Rangwala S.C Charotar Publishing House, latest
- Building Construction, Punmia B.C. Laxmi Publishing, latest
- Building Construction, Arora, S.P. ,Bindra Dhanpat Rai Publications, latest
- Building Construction, Vol –I,II,III, Mackey W.L
- The Construction of Building by Barry .R
- Handbook of Architectural Technology by Cowan Henry J
- Fundamentals of Building Construction by Allen Edward